IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

KAGAWA et al Atty. Ref.: 380-41

Serial No. 10/667,483 TC/A.U.: 1625

Filed: September 23, 2003 Examiner:

For: OPTICALLY ACTIVE EPOXY COMPOUNDS AND PROCESSES

FOR THEIR PRODUCTION

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March 31, 2004

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Attention is invited to the attached copy of a European Search Report mailed February 27, 2004 in the corresponding European application and a copy of each document cited in it, not provided with the IDS filed January 6, 2004.. A completed Form PTO-1449 is also attached.

Official citation and consideration of all the attached documents is requested. Please return to the undersigned a copy of the attached PTO-1449 with the examiner's initials in the left column [MPEP §609] with the next communication.

The Commissioner is hereby authorized to charge our Deposit Account No. 14-1140 for any fees required in connection with the filing of this Information Disclosure Statement.

KAGAWA et al Serial No. 10/667,483

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:

Arthur R. Crawford Reg. No. 25,327

ARC:eaw 1100 North Glebe Road, 8th Floor

Arlington, VA 22201-4714 Telephone: (703) 816-4000 Facsimile: (703) 816-4100 INFORMATION DISCLOSURE CITATION

everal sheets if necessary)

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KAGAWA et al

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	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	0 362 556 A	4/1990	EP				
	05 276966 A	10/1993	Japan				
	7744						
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		UMENTS (ir	ncluding Author, Title, Date, Perting	ent pages, e	tc.)		
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	I The state of the		d approach to electrophilic epoxides", Jo	urnal of the Cl	nemical Socie	ety, Perki	in
	Transactions 1: Organ	ic and Bio-Or	ganic Chemistry (1972-1999) (1988), (9)	urnal of the Cl	nemical Socie 009024843.	3 /	
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	Transactions 1: Organ: Sequin, "13C-NMR. St Chromones", Helvetica XP000974168. Hoffman et al, "Synthe	ic and Bio-Or pectral Different Chimica Actustics sis and reaction	ganic Chemistry (1972-1999) (1988), (9) ences Between Corresponding Methyl Es a, Verlag Helvetica Chimica Acta. Basel	urnal of the Cl), 2663-74, XP tters, Phenyl E , CH, Vol. 64, uced by the ste	nemical Socie 009024843. sters and 2-Si No. 8, 1981,	ubstituted pp. 2654	1 1-2664
	Transactions 1: Organ: Sequin, "13C-NMR. Sp Chromones", Helvetica XP000974168. Hoffman et al, "Synthe nosyloxy-3-keto esters'	cectral Difference Chimica Actual Sis and reactions, Journal of Coselective symmetric control of the coselective symmetric	ganic Chemistry (1972-1999) (1988), (9) ences Between Corresponding Methyl Es a, Verlag Helvetica Chimica Acta. Basel	urnal of the Ch), 2663-74, XP tters, Phenyl E , CH, Vol. 64, uced by the ste 64, XP002268	nemical Socie 009024843. sters and 2-St No. 8, 1981, creoselective a	ubstituted pp. 2654 reduction	d 1-2664 1 of 2-
	Transactions 1: Organ: Sequin, "13C-NMR. Sp. Chromones", Helvetical XP000974168. Hoffman et al, "Synthe nosyloxy-3-keto esters." Corey et al, "An enantical 33(45), 6735-8, XP009 Baures et al, "An efficient specific spec	ic and Bio-Or pectral Differe a Chimica Act sis and reaction ", Journal of Coselective syn 1024844. ent asymmetri	ganic Chemistry (1972-1999) (1988), (9) ences Between Corresponding Methyl Es a, Verlag Helvetica Chimica Acta. Basel ons of 3-hydroxy-2-nosyloxy esters production Chemistry (1991), 56(24), 6759-6, thesis of (2S,3S)- and (2R,3S)-3-hydroxic synthesis of substituted phenyl glycidi	urnal of the Cl), 2663-74, XP iters, Phenyl E. , CH, Vol. 64, uced by the ste 64, XP002268 yleucine", Tetra c esters", Tetra	nemical Socie 009024843. sters and 2-St No. 8, 1981, creoselective of 697. rahedron Lette	ubstituted pp. 2654 reduction ers (1992 ers, Elsev	d 1-2664 1 of 2- 2),
	Transactions 1: Organ: Sequin, "13C-NMR. Sp. Chromones", Helvetica XP000974168. Hoffman et al, "Synthe nosyloxy-3-keto esters' Corey et al, "An enanti 33(45), 6735-8, XP009 Baures et al, "An effici Science Publishers, An	ic and Bio-Or pectral Differe a Chimica Act sis and reaction ", Journal of Coselective syn 024844. ent asymmetrinsterdam, NL,	ganic Chemistry (1972-1999) (1988), (9) ences Between Corresponding Methyl Es a, Verlag Helvetica Chimica Acta. Basel ons of 3-hydroxy-2-nosyloxy esters production Chemistry (1991), 56(24), 6759-4, thesis of (2S,3S)- and (2R,3S)-3-hydroxic synthesis of substituted phenyl glycidi. Vol. 31, No. 45, 21 October 1990, pages	urnal of the Cl), 2663-74, XP iters, Phenyl E. , CH, Vol. 64, uced by the ste 64, XP002268 yleucine", Tetra c esters", Tetra s 6501-6504, 2	nemical Socie 009024843. sters and 2-St No. 8, 1981, creoselective of 697. rahedron Lette KP002006755	ubstituted pp. 2654 reduction ers (1992 ers, Elsev	d 4-2664 1 of 2- 2),
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	Transactions 1: Organ: Sequin, "13C-NMR. Sp. Chromones", Helvetical XP000974168. Hoffman et al, "Synthe nosyloxy-3-keto esters." Corey et al, "An enanti 33(45), 6735-8, XP009 Baures et al, "An effici Science Publishers, An Matsuura et al, "Total S Blue-Glreen Alga Micr 19 September 1994, pa Depuy et al, "Reactions Chemistry (1974), 39(2)	ic and Bio-Or pectral Different Chimica Actives: Sis and reactives: Journal of Coselective syn 024844. ent asymmetrinsterdam, NL, Synthesis of Mocystis Aerug ges 11303-11 s of cycloprop 23), 3360-5, X and mutageni	ganic Chemistry (1972-1999) (1988), (9) ences Between Corresponding Methyl Es a, Verlag Helvetica Chimica Acta. Basel ons of 3-hydroxy-2-nosyloxy esters production of 3-hydroxy-2-nosyloxy-3-hydroxy-2-nosyloxy-3-hydroxy-2-nosyloxy-3-hydroxy-2-nosyloxy-3-hydroxy-2-nosyloxy-3-hydroxy-2-nosyloxy-3-hydro	urnal of the Cl), 2663-74, XP iters, Phenyl E. , CH, Vol. 64, uced by the ste 64, XP002268 yleucine", Tetra s 6501-6504, 2 nzyme Inhibito ublishers, Ams	nemical Socie 009024843. sters and 2-St No. 8, 1981, recoselective of 697. rahedron Lette KP002006755 ory Pentapepti terdam, NL, '', Journal of C	ubstituted pp. 2654 reduction ers (1992 ers, Elsev 5. ide from Vol. 50,	d 1-2664 1 of 2- 2), rier the No. 38
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